

PCT

ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
Bureau international

DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITE DE COOPERATION EN MATIÈRE DE BREVETS (PCT)

(51) Classification internationale des brevets ⁷ :

G03B 21/62

A1

(11) Numéro de publication internationale:

WO 00/67071

(43) Date de publication internationale: 9 novembre 2000 (09.11.00)

(21) Numéro de la demande internationale: PCT/FR00/01156

(22) Date de dépôt international: 28 avril 2000 (28.04.00)

(30) Données relatives à la priorité:

99/05480	29 avril 1999 (29.04.99)	FR
99/07352	10 juin 1999 (10.06.99)	FR

(71) Déposant (pour tous les Etats désignés sauf US): SYN-ELEC S.A. [FR/FR]; Zone Industrielle, F-12380 Saint-Sernin-sur-Rance (FR).

(72) Inventeur; et

(75) Inventeur/Déposant (US seulement): GIBILINI, Daniel [FR/FR]; 2120, route du Boulard, F-38410 Saint Martin d'Uriage (FR).

(74) Mandataires: POCHART, François etc.; Cabinet Hirsch-Desrousseaux-Pochart, 34, rue de Bassano, F-75008 Paris (FR).

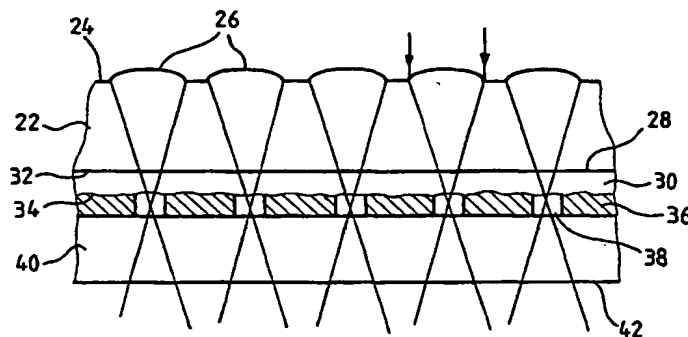
(81) Etats désignés: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, brevet ARIPO (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), brevet eurasien (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), brevet européen (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), brevet OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Publiée

Avec rapport de recherche internationale.

(54) Title: PROJECTION SCREEN ✓

(54) Titre: ECRAN DE PROJECTION



(57) Abstract

The invention concerns a rear projection screen, comprising a support (22) with focusing elements such as microlenses (26) or lenticular elements, a holographic diffuser, and an opaque layer (36) with apertures (38) for allowing through the light focused by the microlenses. The light projected from the rear of the screen is concentrated by the microlenses (26) and passes through the opaque layer by the apertures (38). The holographic diffuser controls the directivity of the light. The incident light on the screen is absorbed by the opaque layer; such that the layer provides good transmittivity, high contrast, and controlled directivity owing to the holographic diffuser. The invention also concerns a method for making such a rear projection screen whereby the apertures in the opaque layer are formed by irradiating said layer or a preparatory material through the microlenses.